BRUHAT BANGALORE MAHANAGARA PALIKE

YALAHANKA ZONE

Name of Work:-Detailed Estimate for Providing Control switches,Wires, LED Street Lights & etc to Vinayakanagara and surrounding areas in Jakkur Ward No 05.

Budget Head .....

Division No..... Estimate No. ..... For Rs. **5000000.00**

Sl. No.	SR Page & SL No	Description of Work	Unit	Qty	Rate	Amount
		PWD Electrical SR 2019-20				
1	66/12/8/4	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 120 Watts	Nos	410	9200.00	3772000.00
2	14.2.3	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts, nuts and wiring using suitable capacity wires.Using 40mm dia G.I.Pipe	Each	410	1212.00	496920.00
3	7/2.7.1	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.4 sqmm	Mtrs	1000	9.00	9000.00
4	43/6.17.7	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	40	20.00	800.00

5	79/14.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	410	175.00	71750.00
6	31/5.44.1	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.300mmx300mmx214mm	Nos	10	3754.00	37540.00
7	5.14	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)100Amps 25kA.	Nos	10	4530.00	45300.00
8	2/1.1.2	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25mm dia 2mm thick	Mtrs	80	65.00	5200.00
		Total Rs				**4438510.00**
		BESCOM CSR 2018-19 (With out GST)				
9	3/7.01	ACSR conductor as per IS-398 (Part -2/1996) Supplaying of Weasel ACSR (6/2.59 mm Al + 1/2.59 mm St), Std Wt : 128 kgs/km	Mtrs	500	21.55	**10776.00**
10	1/2.07	LT 2 Pin X Arms - MS (Dwg No. BESCOM/GM/QS&S/32 Dtd 24.11.2018	Nos	16	87.00	**1392.00**
11	2/5.01	RCC Pole clamp - MS (Dwg No. BESCOM/GM/QS&S/30 Dtd 24.11.2018)	Nos	16	53.00	**848.00**
12	2/6.03	1.1kV Ceramic Pin Insulator (Shell only)	Nos	15	18.00	**270.00**
13	2/6.04	1.1kV GI Pin FOR 1.1kV Cermaic shell Insulator	Nos	15	22.46	**336.90**
14	2/6.06	No.8 Strain Insulator	Per Mtr	10	16.00	**160.00**
15	4/6.02	Stringing of conductor (including pin binding, providing jumps, dead ending, etc.,)Weasel	Mtrs	500	25.26	**12630.00**
16	3/4.01	Fixing of 2 Pin cross arm with insulator and Braces fixing	Nos	16	106.00	**1696.00**

17	BESCOM SR15/49.02	1.1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS-694: 2010PVC Wire - 25 Sqmm Al Wt: 6.7 Kgs, Total Wt: 11.5Kgs for 100Mtrs	Mtrs	20	32.31	646.20
		Total Rs				**28755.10**
		GST Charges (12% on SR Electrical items) Item No 1 to 8.				532621.20
		Mislenious				113.70
		Grand Total Rs				**5000000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD(Elec) SR of 2019-20, BESCOM SR 2018-19 and Approved Rates

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YALAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 50-00 Lakhs
Rupees Fifty Lakhs only
is accorded under P3801 Special Development Works at Ward No.05
Registered as 03/2020-21 .....Subject to conditions contained in enclosed memo No. BBMP/CE/ELE/42/AS/03/2020-21 Dt 24.08.2020

Executive Engineer

Technically sanctioned for Rs. 50,00,000
Rs in Words FIFTY LAKH ONLY
Under P 3801
Job Code No 005-21-000028
Registered as SE(Y)/TS/ 07 /2021 sub/s to conditions contained in enclosed memo No 07 /20-21 Dated: 25/8/2020

AE/JE TA SE(Y)